

Name \_\_\_\_\_

## "Observing Mitosis in Onion Root Tips"

### **Description:**

Observe and document mitosis in onion root tips using a simple microscope. This project allows students to witness actual cell division in plant cells.

### Purpose:

To observe mitosis and gain practical experience in microscopy.

### Instructions:

1. Obtain fresh onion bulbs and slice a small portion of the root tip.
2. Prepare a wet mount slide by placing the root tip on a slide and adding a drop of water.
3. Cover the specimen with a coverslip.
4. Examine the onion root tip under a microscope at low and high magnification.
5. Observe cells in different stages of mitosis (prophase, metaphase, anaphase, and telophase).
6. Document your observations through sketches or photographs.
7. Create a presentation or report describing the stages of mitosis you observed and their significance.

### **Outcome:**

Observation of mitosis in real plant cells and an understanding of its stages.